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OC-6677

25X1

11 FEB 1957
ENG-7-137

MEMORANDUM FOR: Director, Naval Research Laboratory

ATTENTION: Code 5430

SUBJECT: Request for Evaluation: Marine ELINT Receiving System

1. This Agency has recently completed the development of a passive crystal video collection system for marine service. This system covers the radio spectrum from 90 megacycles to 40 kilomegacycles continuously in eight bands. Since the antennas within a given band are oriented 90° apart, the system will give a rough relative bearing upon the intercept of any amplitude modulated signal within the design limits.

2. Prior to further activity on this project, it will be necessary to evaluate the system under actual operating conditions. It would be most helpful if you could arrange for the installation of this system aboard one of the craft under your supervision which is presently located at the Chesapeake Bay Annex. This proposed test has been discussed at length with Mr. Lorenzen and Mr. Owens of your laboratory. Weather permitting, it is expected that these tests will last not longer than two weeks, of which a maximum of five days will be required for the actual test runs with the craft. The remaining period will be occupied with installation, adjustments and other servicing. It would also be appreciated if the radar transmitters available at the Annex could be activated during these runs.

3. With the exception of work performed by the Public Works Department, and the necessary boat operating crew, all engineering and testing would be performed by personnel of this Agency. The cost of such assistance has been discussed with Mr. Lorenzen, and funds are available, up to $5,000, to cover the cost of this program. At such time that definite costs have been determined, this Agency will submit a formal purchase order to cover the funding of all work performed.

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4. Although this equipment is UNCLASSIFIED, the association of this Agency with the equipment and with the contractor who developed the system is classified SECRET. It is therefore requested that the dissemination of Agency association be made on a need-to-know basis. Lt. Commander W. O. Wilson, your Security Officer, has been contacted during a preliminary discussion and apprised of these security considerations. Additional information may be obtained from [redacted], Code 143, Extension [redacted] 25X1

FOR THE DIRECTOR OF CENTRAL INTELLIGENCE

[redacted] 25X1

Director of Communications

[redacted]-E/R&D-RP/FCS:wlj (25 January 1957) (retyped: 31 January 1957) (retyped: 8 February 1957)

cc: R&D Subject File
Reading
OC-E
SPD
FD/OL
Chrono
Dev-ep

COORDINATION:

SPD FD/OL

~~SECRET~~

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